



**Eric L. Butler, Ph.D.**  
**Principal Scientist**

Dr. Butler is an environmental chemistry expert with over 20 years experience evaluating the source and fate of chemicals in the environment. He has applied chemical fingerprinting techniques, including isotopic methods, in projects involving petroleum hydrocarbons, PAHs, PCBs, dioxins/furans, and solvents. He specializes in oil chemistry, including PCB oils, composition of petroleum products, source identification, and the fate of chemicals in the environment and has testified on these topics. At Gradient, he focuses on designing analytical chemistry programs and litigation support involving forensic chemistry. Dr. Butler has performed and directed numerous chemical analyses using both laboratory and field chemistry techniques. In addition he has developed an expertise in contemporary archeology ("garbology") to date environmental disposal activities by dating the co-disposed artifacts, and has testified in court on the topic. Before coming to Gradient, he served the U.S. Congress as a Congressional Science Fellow, directed a municipal laboratory specializing in VOC and bacteriological analyses, and directed numerous environmental studies relating to the Exxon Valdez Oil Spill.

Education:

Ph.D., Chemical Oceanography (b) (6)  
B.S., Chemistry, (b) (6)

**Practice Areas & Expertise:**

*Environmental Forensics*  
*Chemical Fingerprinting*  
*Analytical Methods*  
*Source Allocation*  
*TPH, PAH, PCBs, Dioxins*  
*Contemporary Archeology*